

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	"4041118"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/13 08:11
L3	1265	((264/34,36.16,36.2) or (425/262)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/13 08:58
S1	12	"4690631"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 15:22
S2	9	("4690631").URPN.	USPAT	OR	OFF	2005/10/10 12:41
S3	13	("4957424").URPN.	USPAT	OR	OFF	2005/10/10 12:42
S4	6	("5147196").URPN.	USPAT	OR	OFF	2005/10/10 12:45
S5	1	("5364578").URPN.	USPAT	OR	OFF	2005/10/10 12:47
S6	1	("5616351").URPN.	USPAT	OR	OFF	2005/10/10 12:47
S7	1	("5616351").URPN.	USPAT	OR	OFF	2005/10/10 12:47
S8	1	("6017208").URPN.	USPAT	OR	OFF	2005/10/10 12:47
S9	0	("6106749").URPN.	USPAT	OR	OFF	2005/10/10 12:48
S10	0	("2003/0190384").URPN.	USPAT	OR	OFF	2005/10/10 12:48
S11	27	("1904094"   "2758352"   "2937429"   "3262175"   "3276091"   "3551968"   "3619872"   "3649727"   "3689967"   "3746494"   "3786549"   "3865536"   "3960644"   "4067680"   "4334848"   "4340553"   "4406605"   "4407648"   "4540539").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 12:48
S12	30	("2926411"   "3095628"   "3096556"   "3141222"   "3276091"   "3551968"   "3649727"   "3655842"   "3689967"   "3752626"   "3922133"   "3948354"   "4079500"   "4131408"   "4253814"   "4340553"   "4400149"   "4406605"   "4407648"   "4540539"   "4639342"   "4690631").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 12:58
S13	24	("1297082"   "1995692"   "2435052"   "2520199"   "3074139"   "3355897"   "3597932"   "3649727"   "3810441"   "3897182"   "4298555"   "4340553"   "4371325"   "4600548"   "4631867"   "4690631").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:02

## EAST Search History

S14	24	("2926411"   "3095628"   "3141222"   "3551968"   "3655842"   "3662437"   "3752626"   "3829268"   "3922133"   "3948354"   "4118165"   "4131408"   "4253814"   "4340553"   "4406605"   "4639342"   "4690631"   "4957424"   "Re28902").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:54
S15	22	("2926411"   "3095628"   "3141322"   "3551968"   "3655842"   "3662437"   "3752626"   "3829268"   "3922133"   "4118165"   "4131408"   "4253814"   "4340553"   "4406605"   "4639342"   "4690631"   "4957424").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:08
S16	25	("2926411"   "3095628"   "3141222"   "3551968"   "3655842"   "3662437"   "3752626"   "3829268"   "3922133"   "4118165"   "4131408"   "4253814"   "4340553"   "4406605"   "4639342"   "4690631"   "4957424"   "5040968"   "5051223"   "5167967").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:09
S17	17	("3096556"   "3276091"   "3733163"   "3752626"   "4041118"   "4238177"   "4253814"   "4340553"   "4540539"   "4690631"   "4756861"   "4957424"   "5080571"   "5147196"   "5167967").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:12
S18	11	("0921142"   "4336013"   "4340553"   "4540539"   "4690631"   "4957424"   "5051223"   "5080571"   "5147196"   "5364578").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:15
S19	13	("1895740"   "3096556"   "3276091"   "3632270"   "4340553"   "4505658"   "4690631"   "4957424"   "5456590"   "5616351").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:16
S20	6	("3632270").URPN.	USPAT	OR	OFF	2005/10/10 13:17
S21	6	("2751657"   "3096556"   "3373466").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:17
S22	8	("1895740").URPN.	USPAT	OR	OFF	2005/10/10 13:20
S23	17	("1137776"   "3262175"   "3551968"   "3619872"   "3746494"   "4340553"   "4406605"   "4407648"   "4639342"   "4690631"   "4957424"   "5147196"   "5167967").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:25

## EAST Search History

S24	425	(packerhead\$3 packer adj head\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:24
S25	230	S24 and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:26
S26	0	"B28B 21/26"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:51
S27	98	"21/26"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:52
S28	545	B28B	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:52
S29	0	B28B near 21/26	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:52
S30	0	B28B near3 21/26	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:52
S31	18	S28 and (packer\$9)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 13:54
S32	16201	lining with (pipe\$2 tube\$2 tubular)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:24
S33	5422	lining with (pipe\$2 tube\$2 tubular) and (rotating rotation rotated)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:24
S34	3622	lining with (pipe\$2 tube\$2 tubular) and (rotating rotation rotated) and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:40
S35	1492	(packerhead\$3 packer adj head\$2 roller adj head)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:33
S36	158	S35 and (layers layered)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:29
S37	425	(packerhead\$3 packer adj head\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:33
S38	29	S37 and (layers layered)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:35

## EAST Search History

S39	18	S37 and acid\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:38
S40	6874	(lining liner) with (pipe\$2 tube\$2 tubular) and (rotating rotation rotated) and diameter\$2 and (pressure compress\$6)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:41
S41	3792	((264/34,36.16,36.2,250,308) or (425/262,259,426)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 14:55
S42	786	(264/34,36.16,36.2).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 15:05
S43	463	(425/262).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:38
S44	12	"4690631"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S45	9	("4690631").URPN.	USPAT	OR	OFF	2005/10/10 21:05
S46	13	("4957424").URPN.	USPAT	OR	OFF	2005/10/10 21:05
S47	6	("5147196").URPN.	USPAT	OR	OFF	2005/10/10 21:05
S48	1	("5364578").URPN.	USPAT	OR	OFF	2005/10/10 21:05
S49	1	("5616351").URPN.	USPAT	OR	OFF	2005/10/10 21:05
S50	1	("5616351").URPN.	USPAT	OR	OFF	2005/10/10 21:05
S51	1	("6017208").URPN.	USPAT	OR	OFF	2005/10/10 21:05
S52	27	("1904094"   "2758352"   "2937429"   "3262175"   "3276091"   "3551968"   "3619872"   "3649727"   "3689967"   "3746494"   "3786549"   "3865536"   "3960644"   "4067680"   "4334848"   "4340553"   "4406605"   "4407648"   "4540539").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S53	30	("2926411"   "3095628"   "3096556"   "3141222"   "3276091"   "3551968"   "3649727"   "3655842"   "3689967"   "3752626"   "3922133"   "3948354"   "4079500"   "4131408"   "4253814"   "4340553"   "4400149"   "4406605"   "4407648"   "4540539"   "4639342"   "4690631").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05

## EAST Search History

S54	24	("1297082"   "1995692"   "2435052"   "2520199"   "3074139"   "3355897"   "3597932"   "3649727"   "3810441"   "3897182"   "4298555"   "4340553"   "4371325"   "4600548"   "4631867"   "4690631").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S55	24	("2926411"   "3095628"   "3141222"   "3551968"   "3655842"   "3662437"   "3752626"   "3829268"   "3922133"   "3948354"   "4118165"   "4131408"   "4253814"   "4340553"   "4406605"   "4639342"   "4690631"   "4957424"   "Re28902").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S56	22	("2926411"   "3095628"   "3141322"   "3551968"   "3655842"   "3662437"   "3752626"   "3829268"   "3922133"   "4118165"   "4131408"   "4253814"   "4340553"   "4406605"   "4639342"   "4690631"   "4957424").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S57	25	("2926411"   "3095628"   "3141222"   "3551968"   "3655842"   "3662437"   "3752626"   "3829268"   "3922133"   "4118165"   "4131408"   "4253814"   "4340553"   "4406605"   "4639342"   "4690631"   "4957424"   "5040968"   "5051223"   "5167967").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S58	17	("3096556"   "3276091"   "3733163"   "3752626"   "4041118"   "4238177"   "4253814"   "4340553"   "4540539"   "4690631"   "4756861"   "4957424"   "5080571"   "5147196"   "5167967").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S59	11	("0921142"   "4336013"   "4340553"   "4540539"   "4690631"   "4957424"   "5051223"   "5080571"   "5147196"   "5364578").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S60	13	("1895740"   "3096556"   "3276091"   "3632270"   "4340553"   "4505658"   "4690631"   "4957424"   "5456590"   "5616351").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S61	6	("3632270").URPN.	USPAT	OR	OFF	2005/10/10 21:05
S62	6	("2751657"   "3096556"   "3373466").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S63	8	("1895740").URPN.	USPAT	OR	OFF	2005/10/10 21:05

## EAST Search History

S64	17	("1137776"   "3262175"   "3551968"   "3619872"   "3746494"   "4340553"   "4406605"   "4407648"   "4639342"   "4690631"   "4957424"   "5147196"   "5167967").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S65	425	(packerhead\$3 packer adj head\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S66	786	(264/34,36.16,36.2).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S67	463	(425/262).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S68	1629	S44 S45 S46 S47 S48 S49 S50 S51 S52 S53 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S69	54	S68 and rotation with speed	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/10 21:05
S70	4	("4690631" "1838546" "5051223").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 11:38
S71	232	curing adj time with concrete	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 12:18
S72	67	curing adj time with concrete and pipe\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 12:32
S73	1551	(264/34,36.16,36.2,262).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/16 12:32
S74	1257	((264/34,36.16,36.2) or (425/262)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 14:53
S75	4	("3632270" "1355913" "4690631").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/22 14:59
S76	0	("1355913").URPN.	USPAT	OR	OFF	2006/03/22 15:03
S77	3	("4690631" "1838546" "5051223").PN.	USPAT	OR	OFF	2006/03/22 15:15
S78	4	("3632270" "1355913" "4690631" "4957424").PN.	USPAT	OR	OFF	2006/03/22 15:47
S79	16	"804455" "806427" "383861" "406133"	DERWENT	OR	OFF	2006/03/22 15:49

## EAST Search History

S80	15	"804455" "806427" "383861" "0406133"	DERWENT	OR	OFF	2006/03/22 15:49
S81	5	"0406133"	DERWENT	OR	OFF	2006/03/22 15:49
S82	0	"00406133"	DERWENT	OR	OFF	2006/03/22 16:10
S83	3	("4041118" "2533579" "4340553"). PN.	USPAT	OR	OFF	2006/03/22 16:10
S84	4	"2533579"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/24 13:11
S85	24	"4340553"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/24 13:11
S86	10	"1768451"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 15:22
S87	7473	second with (turntable\$2 turn adj table\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 15:57
S88	498	second adj (turntable\$2 turn adj table\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 15:58
S89	25	second adj (turntable\$2 turn adj table\$2) and (concrete cement\$8)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 15:58
S90	3114	(packer adj head\$2 packerhead) (turntable\$2 turn adj table\$2) and (concrete cement\$8)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 15:59
S91	59	(packer adj head\$2 packerhead) and (turntable\$2 turn adj table\$2) and (concrete cement\$8)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 15:59
S92	0	"10813605"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:23
S93	1	"10/813605"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:23
S94	465	(425/262).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:42
S95	801	(264/34,36.16,36.2).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:44
S96	307	pipe with (concrete cement\$8) and acid with (resisting resistance resistant)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:46

## EAST Search History

S97	9514	(pipe pipes) and (liner lining) and (connect connecting connection connector connected) and (concrete cement\$8)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:48
S98	5262	(pipe pipes) same (liner lining) and (connect connecting connection connector connected) and (concrete cement\$8)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:48
S99	3047	(pipe pipes) same (liner lining) same (concrete cement\$8) and (connect connecting connection connector connected)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:49
S10 0	1409	S99 and (rotating rotation rotator rotated rotate)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/11 16:49